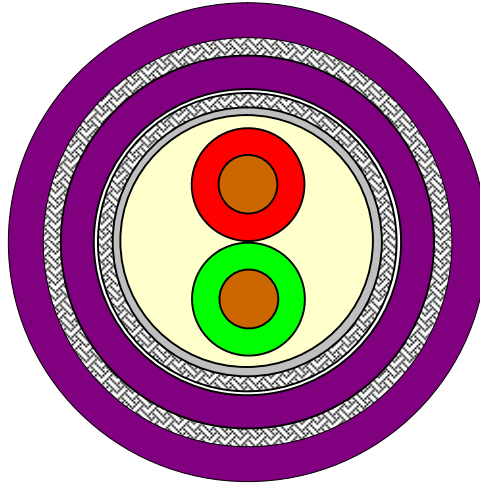


ICS PB DP FC 1x2xAWG22/1 SWB LSHF

PROFIBUS DP FC Steel Wire Braid Armoured LSHF Cable



Application

Armoured indoor and outdoor installation cable:

- Halogen free and flame resistant
- Limited segment length (according to PROFIBUS-Net Manual)
- FastConnect-assembly
- UV-resistant
- Silicon free
- Limited oil and grease resistance

Standards

EN 50170 part 8-2, cable type A, IEC 61158 and IEC 61784

Flame Resistance

LSHF: IEC 60332-1, IEC 61034-2, IEC 60754-1/2
LSHF-FR: IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2

Construction

Conductor	bare copper wire, \varnothing 0.64 mm, (cross-section 0.32 mm ²)
Insulation	foam-skin-PE, \varnothing 2.5 mm
Stranding	two cores gn / rd to the Pair
Bedding	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, filling the interstices \varnothing 5.4 mm
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, violet, \varnothing 8.0 mm
Armouring	galvanized steel wire braid, optical coverage 85% \varnothing 9.1 mm
Outer sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, violet, RAL 4005 \varnothing 12.0 mm
Marking	DRAKA ICS PB DP FC 1x2xAWG22/1 SWB LSHF, batch number and meter marking

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Mechanical properties

Bending radius	single bending repeated bending	≥ 60 mm ≥ 120 mm
Temperature range	Transport and storage Installation	- 30°C to + 70°C - 30°C to + 70°C - 5°C to + 50°C

Electrical properties

at 20°C

Loop resistance	≤ 110 Ω/km
Screen resistance nominal	12 Ω/km
Characteristic impedance nominal)	150 Ω
Mutual capacitance (at 1 kHz)	approx. 28,5 nF/km
Capacitance unbalance to earth max.	1.5 nF/km
Insulation resistance	≥ 5 GΩkm
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V
Inductance (nominal)	0.90 mH/km

Electrical data

at 20°C

Frequency	Impedance (Ohm)	Attenuation (dB/100m)		
9,6 kHz	270 ± 27	≤ 0.25		
38,4 kHz	185 ± 18.5	≤ 0.4		
1 MHz				
3 MHz	150 ± 15			
4 MHz	150 ± 15	≤ 2.2		
16 MHz	150 ± 15	≤ 4.2		
20 MHz	150 ± 15			

Technical data

Part number	Cable type DIN/VDE	Type	Product name	Outer diameter mm	Weight kg	Standard delivery length m	Drum size (mm) PWD*	Gross weight kg	Copper content	Tensile force N
60039258	02YSH(ST) CHQH	1 x 2 x 0.64/2.55- 150	ICS PB DP FC 1x2xAWG22/1 SWB LSHF	12.0	208	1000	770x360 x560	221.3	24.3	450

*PWD (Plywood Drum)

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